Bernard Joshua Raja Rajan

Data Science Student

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Klang / Selangor / Malaysia

linkedin.com/in/bernie00

github.com/Bernard-Joshua

http://bit.ly/3HXFgDV

SKILLS

- 6/10 Python
- 6/10 C++
- 6/10 C#
- 8/10 SQL
- 6 / 10 Hadoop HDFS
- 6 / 10 Hive / HiveQL
- 6 / 10 Pig
- 7 / 10 Tableau
- 7 / 10 KNIME

ABOUT ME

Complex problem-solver with analytical and driven mindset. Dedicated to achieving demanding development objectives according to tight schedules while producing good code. Looking for an internship for at least 3 months beginning on the 1st of March or April until May or June.

EXPERIENCE

Project Team Lead (U-Mobile Final Year Project)

Swinburne University of Technology / Subang Jaya / Mar 2022 – Nov 2022

Acted as the team leader and backend developer of the project, which was to create a cryptocurrency prediction software with TensorFlow.

- Adaptable and proficient in learning new concepts quickly and efficiently.
- Applied effective time management techniques to meet tight project deadlines.
- Communicated project expectations to team members and stakeholders to set a tone for high productivity level.
- Developed and managed comprehensive project plans and associated, project documents to keep ongoing development on schedule.
- Built flow charts and project plans, informing clients on available services while proposing viable paths towards accomplishing objectives.
- Defined project scopes, goals and deliverables that supported company objectives in collaboration with management and stakeholders.
- Monitored project progress, identified risks, and took corrective action as needed.

Microsoft Student Learn Ambassador

Microsoft Student Programs / Global / January 2022 - Current

Learn Student Ambassadors are a global group of campus leaders who are eager to help fellow students, create robust tech communities and develop technical and career skills for the future.

- Upskill fellow students on the latest cloud technologies.
- Supervised work of fellow ambassadors by, assigning them tasks and monitoring performance against targets.
- Project management skills from facilitating workshops and talks.
- Translated technical concepts and information into terms parties could easily comprehend.

EDUCATION

Bachelor of Computer Science, Majoring in Data Science

Swinburne University of Technology
2020 – 2023
CGPA 3.81

Australian Matriculation (Commerce)

Methodist College Kuala Lumpur
2019 – 2019
Distinction 77.7%

AWARDS

Excellence Award (Feb 2021)

For Outstanding Scholastic Achievement in Semester 2:
2 High Distinctions, 3 Distinctions

Merit Award (July 2021)

For Outstanding Scholastic Achievement in Semester 3:
2 High Distinctions, 2 Distinctions

Merit Award (Feb 2022)

For Outstanding Scholastic Achievement in Semester 4:
2 High Distinctions, 3 Distinctions

Beta Ambassador (July 2022)

Recognition from Microsoft for contributions and achievements in the Microsoft Learn Student Ambassadors program.

Swinburne Emerging Leader (Oct 2022)

Recognition for contributions/achievements in Community, Sustainability, Campus, and Career Development.

Microsoft Learn Peer Mentor

Microsoft Student Programs / APAC / Nov 2022 - Jan 2023

Involvement as a mentor in a Microsoft Learn Student Ambassador mentorship program helping fellow students learn, lead, and empower their communities with technology.

- Strengthened communication skills through regular interactions with others.
- Excellent communication skills, both verbal and written.
- Exercised leadership capabilities by successfully motivating and inspiring others.
- Managed technical projects, utilizing established project tools and methodologies to bring projects to timely completion.
- Demonstrated respect, friendliness, and willingness to help wherever needed.

PROJECTS

U-Mobile Cryptocurrency Prediction Software (FYP)

- Worked on the backend of the project to develop a Multivariate-LSTM model to predict the price of several cryptocurrencies in a 60-hour rolling window. Also helped the frontend team integrate the backend and APIs to the application.
- Project used Django for frontend and TensorFlow and SQL for backend. Entire project was written in Python.
- Achieved a mean absolute percentage error of 15%

Multivariate-LSTM for Hourly Bitcoin Prediction

- This project is an optimized version of the FYP and only includes the prediction model. It was created to showcase my capabilities in using Python, Scikit-Learn and TensorFlow. The original project cannot be shared due to a privacy agreement with U-Mobile.
- The model in this project only predicts Bitcoin prices using a 24-Hour rolling window.
- Optimizations used in this project are: Principal Component Analysis, Mutual Information Algorithm and Batch Shuffling.
- Achieved a Mean Absolute Percentage Error of 5.67%.
- https://github.com/Bernard-Joshua/Multivariate-LSTM-BTC

CERTIFICATIONS

Applied Data Science with Python - Level 2
IBM / Dec 2022

Machine Learning with Python - Level 1
IBM / Dec 2022

Convex Hull Algorithm in C++

- This project was a part of my Data Structures course. Used OOP methodology to implement the Graham Scan algorithm to determine the convex hull of a finite set of points in the plane with time complexity O(n log n) .
- https://github.com/Bernard-Joshua/Convex-Hull-Algorithm

Robot Navigation with AI-Search Algorithms

- This project was part of my Introduction to Artificial Intelligence course. It is based of the 1st to 3rd Chapters of Russell and Norvig's *"Artificial Intelligence: A Modern Approach"*.
- *Utilizes an OOP architecture and both Informed and Uniformed search algorithms.*
- https://github.com/Bernard-Joshua/Robot-Navigation

Virus Information Relational Database

- *This project is part of my Data Fundamentals course. Uses SQL to create a relational database of viruses, locations they are active in, the types of strains they have , main modes of transmissions and the researchers who are actively researching them.*
- https://github.com/Bernard-Joshua/Virus-Information-Database

Global Superstore Sales Analytics and Dashboard Creation

- *This project is a part of my Big Data Management course. Used Tableau to get key insights on the stores performance and build interactive dashboards with them.*
- *Dashboards utilized multiple different visualizations including map visualizations and also LOD calculations.*
- https://github.com/Bernard-Joshua/Global-Supertore-Analytics-And-Dashboard

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INTI
International College Subang

Ref: SR/2023/1/003

January 10, 2023

TO WHOM IT MAY CONCERN

Dear Sir/Madam,

This is to certify that Bernard Joshua A/L Raja Rajan, (NRIC/Passport.: 000210-10-1839), Matriculation No.: J20033578) is a full-time student of INTI International College Subang. The student has been enrolled in the Bachelor of Computer Science 3+0 In Collaboration with Swinburne University of Technology, Australia programme since July 2020.

The Australian GPA to Malaysian GPA Conversion for the Bachelor of Computer Science 3+0 In Collaboration with Swinburne University of Technology, Australia programme are as attached.

English is the medium of instruction for all the programmes in INTI International University and Colleges. All assessments are also fully conducted in English.

Kindly call us at 03-56232800 should you require further information or clarification. We are happy to assist you in any possible manner.

Thank you.

Yours faithfully,

Norhasiken Binti Abu Bakar
Manager
Office of Admissions and Records

Student Name: BERNARD JOSHUA A/L RAJA RAJAN **Student ID**: J20033578 / 103365867

Australian GPA to Malaysian GPA Conversion

Unit	Short Title	Mark	Grade	Australian GPA	Malaysian GPA
COS20028	Big Data Architecture and Application	85	HD	4	4
COS30045	Data Visualisation	76	D	3	3.67
ICT30005	Professional Issues in Information Technology	82	HD	4	4
INF20016	Big Data Management	82	HD	4	4
COS30019	Introduction to Artificial Intelligence	71	D	3	3.67
MDA10008	Global Media Industries	86	HD	4	4
MGT10001	Introduction to Management	76	D	3	3.67
STA10003	Foundations of Statistics	81	HD	4	4
SWE40001	Software Engineering Project A	78	D	3	3.67
COS30008	Data Structures and Patterns	61	C	2	3
COS30015	IT Security	89	HD	4	4
COS30017	Software Development for Mobile Devices	83	HD	4	4
INF10003	Introduction to Business Information Systems	74	D	3	3.67
SWE20001	Managing Software Projects	77	D	3	3.67
COS10022	Introduction to Data Science	93	HD	4	4
COS20007	Object Oriented Programming	77	D	3	3.67
COS20015	Fundamentals of Data Management	77	D	3	3.67
SWE20004	Technical Software Development	92	HD	4	4
TNE10005	Network Administration	70	D	3	3.67
COS10003	Computer & Logic Essentials	69	C	2	3
COS10009	Introduction to Programming	70	D	3	3.67
COS10011	Creating Web Applications	87	HD	4	4
COS20001	User-Centred Design	78	D	3	3.67
SWE40002	Software Engineering Project B	89	HD	4	4
				3.48	**3.81**

UNOFFICIAL TRANSCRIPT

Student ID: 103365867

BERNARD JOSHUA RAJA RAJAN
No. 59, Jalan Selampit 23, Taman Klang Jaya
Klang Selangor 41200
Malaysia

BERNARD JOSHUA RAJA RAJAN

Leadership Achievements

Recognised as a Swinburne Emerging Leader for achievement in:
-Campus Participation
-Career Development
-Community Engagement
-Sustainability

Bachelor of Computer Science

The course requirements were completed on 27 December 2022.

The student has completed the following: Major in Data Science.

Year	Unit Code	Unit Title	Credit Points	Mark	Grade
2020					
HE Semester (Aug)					
	COS10003	Computer & Logic Essentials	12.5	69	C*
	COS10009	Introduction to Programming	12.5	70	D*
	COS10011	Creating Web Applications	12.5	87	HD
	COS20001	User-Centred Design	12.5	78	D*
2021					
HE Semester (Mar)					
	COS10022	Introduction to Data Science	12.5	93	HD
	COS20007	Object Oriented Programming	12.5	77	D
	COS20015	Fundamentals of Data Management	12.5	77	D
	SWE20004	Technical Software Development	12.5	92	HD
	TNE10005	Network Administration	12.5	70	D
HE Semester (Aug)					
	COS30008	Data Structures and Patterns	12.5	61	C
	COS30015	IT Security	12.5	89	HD
	COS30017	Software Development for Mobile Devices	12.5	83	HD
	INF10003	Introduction to Business Information Systems	12.5	74	D
	SWE20001	Managing Software Projects	12.5	77	D
2022					
HE Semester (Mar)					
	COS30019	Introduction to Artificial Intelligence	12.5	71	D
	MDA10008	Global Media Industries	12.5	86	HD
	MGT10001	Introduction to Management	12.5	76	D
	STA10003	Foundations of Statistics	12.5	81	HD
	SWE40001	Software Engineering Project A	12.5	78	D
HE Semester (Aug)					
	COS20028	Big Data Architecture and Application	12.5	85	HD
	COS30045	Data Visualisation	12.5	76	D
	ICT30005	Professional Issues in Information Technology	12.5	82	HD

INF20016	Big Data Management	12.5	82	HD
SWE40002	Software Engineering Project B	12.5	89	HD

Grade Point Average: 3.476